



FBI Laboratory

2501 Investigation Parkway
Quartic, Virginia 22135

REPORT OF EXAMINATION

To: Phoenix
Squad C-6/Tucson RA
SA Michelle L. Terwilliger

Date: December 23, 2010
Case ID No.: 89B-PX-86010

Lab No.: 101217002 NY NN

Reference: Communication dated December 16, 2010

Your No.:

Title: UNSUB(S);
BRIAN TERRY-VICTIM (DECEASED), U.S. BORDER PATROL AGENT;
ASSAULT OF A FEDERAL OFFICER;
12/15/2010

Date specimens received: December 17, 2010

The following items were examined in the Firearm/Toolmarks Unit:

Q1	Magazine (1B2, E4418570, Item 15)
Q1.1-Q1.25	Cartridges from Q1 (1B2, E4418570, Item 15)
Q2	Magazine (1B4, E4418572, Item 21)
Q2.1-Q2.24	Cartridges from Q2 (1B4, E4418572, Item 21)
Q3	Cartridge (1B4, E4418572, Item 21)
Q4	Cartridge case (1B5, E4418573, Item B)
Q5	Cartridge case (1B6, E4418574, Item M)
Q6	Bullet from victim (1B7, E4418575)

K2 Rifle, Serial Number 1983-AH3977, with strap (1B1, E4418569, Item 15)

K3 Roman rifle, Serial Number CZ3775, with strap (1B3, E4418571, Item 21)

The results of the requested firearms examinations are included in this report.

Results of Examinations:

Specimens Q1.1 through Q1.25, Q2.1 through Q2.24 and Q3 are 7.62 x 39mm cartridges loaded with copper washed steel jacketed bullets and bear the headstamp of the Federal State Enterprise Vymple, Russia. The Q1.1 through Q1.25, Q2.11 through Q2.24 and Q3 cartridges have the physical characteristics of functional ammunition. A search of the FBI Laboratory's Reference Ammunition File found cartridges similar to specimens Q1.1 through Q1.25, Q2.1 through Q2.24 and Q3 marketed under the name of Golden Tiger Ammunition. The Q2.1 through Q2.10 cartridges were used to test fire the K2 and K3 rifles.

Specimens Q4 and Q5 are 7.62 x 39mm steel cartridge cases that bear the headstamp of the Federal State Enterprise Vymple, Russia. Due to a lack of sufficient agreement in the individual microscopic marks of value, no conclusion could be reached as to whether the Q4 and Q5 cartridge cases as having been fired in the same firearm. Furthermore, there was nothing found to indicate that the Q4 and Q5 cartridge cases were fired in the K2 and K3 rifles.

Specimen Q6 is a .30 caliber (7.62 mm) copper washed steel jacketed bullet that was fired from a barrel rifled with four grooves, right twist, such as the K2 and K3 rifles. However, due to a lack of sufficient agreement in the individual microscopic marks of value, it could not be determined if the Q6 bullet was fired from the barrel of the K2 or K3 rifles.

Specimen K2 is a 7.62 x 39mm Romanian rifle, Model GP WASR-10/63, Serial Number 1983-AH 3977. When test fired in the FBI Laboratory using the Q1 magazine, the K2 rifle fired two cartridges with a single pull of the trigger. Examination of the K2 rifle found no indications that the rifle had been altered to fire more than one cartridge with a single pull of the trigger. When struck, the firing pin in the K2 rifle fits tightly in the bolt, and this may have facilitated the firing of more than one cartridge with a single pull of the trigger. Additionally, the butt stock of the K2 rifle has been broken-off.

Specimen K3 is a 7.62 x 39mm Romanian rifle, Model GP WASR-10/63, Serial Number 1971 CZ3775. The K3 rifle functioned properly when test fired in the FBI Laboratory using the Q2 magazine.

Remarks:

Supporting documentation for the examinations conducted for this report is retained in the FBI Laboratory files. The submitted items and test-fired specimens will be returned by the Laboratory's Evidence Control Unit. For questions about the content of this report, please contact examiner Erich D. Smith at 703-632-7242. For questions concerning the disposition of the submitted items, please contact Request Coordinator Lori Uhle at 703-632-7172.

Erich D. Smith
Firearms/Toolmarks Unit

This report contains the opinions/interpretations of the examiner(s) who issued the report.

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